

Attorney Docket Number	6454-56839-01
Application Number	10/039,940
Filing Date	October 26, 2001
First Named Inventor	Bowie G. Keefer et al.
Art Unit	1745
Examiner Name	Stephen J. Kalafut
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# U.S. PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
QX_	3.1	3,094,569	18 June 1963	Thomas Thomas
5K		3,204,388	07 Sept 1965	Asker
OK		3,430,418	04 Mar 1969	Wagner
		3,513,631	30 Dec 1968	Seibert et al.
3K		3,564,816	06 May 1986	Batta
UK		3,594,984	27 July 1971	Toyama
		4,144,037	13 Mar 1979	Armond et al.
JKI		4,153,434	08 May 1979	Settlemyer
JK!		4,272,265	09 June 1981	Snyder
X	4	1,322,394	30 Mar 1982	Mezey et al.
K	4	,354,859	19 Oct 1982	Keller II et al.
K	4	,406,675	27 Sept 1983	Dangieri et al.
DK	4	,452,612	05 June 1984	Mattia
K	4,	,530,705	23 July 1985	Firey
-		587,114	06 May 1986	Hirai et al.
JC	4,	696,682	29 Sept 1987	Hirai et al.

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<sup>\*</sup> Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

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## U.S. PATENT DOCUMENTS

		Partie Doco	
OV	4,702,903	27 Oct 1987	Keefer
Ar I	4,758,253		
9/		19 July 1988	Davidson et al.
GA	4,917,711	17 April 1990	Xie et al.
SIL	4,968,329	06 Nov 1990	Keefer
Sit	5,082,473	21 Jan 1992	Keefer
SK	5,096,469	17 Mar 1992	Keefer
DX	5,096,470	17 Mar 1992	Kirshnamurthy
SK	5,133,784	28 July 1992	Boudet et al.
3	5,175,061	29 Dec 1992	Hildebrandt et al.
X	5,227,598	13 July 1993	Woodmansee et al.
K	5,246,676	21 Sept 1993	Hay
X	5,248,325	28 Sept 1993	Kagimoto et al.
)K	5,256,172	26 Oct 1993	Keefer
报	5,256,174	26 Oct 1993	Kai et al.
KI	5,271,916	21 Dec 1993	Vanderborgh et al.
X	5,282,886	01 Feb 1994	Kobayashi et al.
头	5,393,326	28 Feb 1995	Engler et al.
	5,429,665	04 July 1995	Botich Botich

**EXAMINER** DATE SIGNATURE: CONSIDERED:

<sup>\*</sup> Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

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### U.S. PATENT DOCUMENTS

		MICHIS
5,431,716	11 July 1995	Ebbeson
5,441,559	15 Aug 1995	Petit et al.
5,487,775	30 Jan 1996	LaCava et al.
5,509,956	23 April 1996	Opperman et al.
5,529,763	25 June 1996	Peng et al.
5,529,970	25 June 1996	Peng
5,593,478	14 Jan 1997	Hill et al.
5,632,807	27 May 1997	Tomita et al.
5,646,305	08 July 1997	Wagner et al.
5,656,067	12 Aug 1997	Watson et al.
5,658,370	19 Aug 1997	Vigor et al.
5,766,311	16 June 1998	Ackley et al.
5,827,358	27 Oct 1998	Kulish et al.
5,876,486	02 Mar 1999	Steinwandel et al.
5,891,217	06 April 1999	Lemcoff et al.
5,958,109	28 Sept 1999	Fuderer
6,022,399	08 Feb 2000	Ertl et al.
		·
	5,441,559         5,487,775         5,509,956         5,529,763         5,529,970         5,593,478         5,632,807         5,656,067         5,658,370         5,766,311         5,827,358         5,876,486         5,958,109	5,441,559       15 Aug 1995         5,487,775       30 Jan 1996         5,509,956       23 April 1996         5,529,763       25 June 1996         5,529,970       25 June 1996         5,593,478       14 Jan 1997         5,632,807       27 May 1997         5,646,305       08 July 1997         5,656,067       12 Aug 1997         5,658,370       19 Aug 1997         5,766,311       16 June 1998         5,827,358       27 Oct 1998         5,876,486       02 Mar 1999         5,958,109       28 Sept 1999

EXAMINER SIGNATURE: DATE CONSIDERED: 11 16 04

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7	CHRADNER	Friend at 17910101		

### U.S. PATENT DOCUMENTS

	6,143,057	07 Nov 2000	Bülow et al.
	6,162,5 3	19 Dec 2000	Borup et al.
SOK	6,200,365	13 Mar 2001	Eimer et al.
0	6,231,644	15 May 2001	Jain et al.
OK.	6,293,998	25 Sept 2001	Dolan et al.
	6,296,823	02 Oct 2001	Ertl et al.
0	6,398,853	04 June 2002	Keefer et al.
	6,406,523	18 June 2002	Connor et al.
0	6,692,545	17 Feb 2004	Gittleman et al.
	US 2001/0047824 A1	06 Dec 2001	Hill et al.
0	US 2002/0004157 A1	10 Jan 2002	Keefer et al.
0	US 2002/0098394 A1	25 July 2002	Keefer et al.
OK	US 2002/0104518 A1	08 Aug 2002	Keefer et al.
OK.	US 2002/0112479 A1	22 Aug 2002	Keefer et al.
	US 2002/0127442 A1	12 Sept 2002	Connor et al.
	US 2003/0143448 A1	31 July 2003	Keefer
W.	US 2003/0157390 A1	21 Aug 2003	Keefer
QX	US 2004/0005492 A1	08 Jan 2004	Keefer et al.
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## FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
OX-		Europe	EP 0 143 537 A2		Keefer
OX		Europe	EP 0 143 537 B1	05 June 1985	Keefer
		Europe	EP 0 737 648 A2	16 Oct 1996	Anand et al.
COK		Europe	EP 0 750 361 A1	27 Dec 1996	Bellows et al.
OX		Europe	EP 0 853 967 A2	22 July 1998	Lemcoff et al.
DK		Europe	EP 1 095 689 A1	02 May 2001	Monereau et al.
n/C		Japan	JP 62-278770	Mar 1987	
DK		United Kingdom	GB 2 042 365 A	24 Sept 1980	Smith
)(		WIPO/PCT	WO 94/04249	03 Mar 1994	Schwartz
0/		WIPO/PCT	WO 98/29182	09 July 1998	Keefer
DET		WIPO/PCT	WO 99/28013	10 June 1999	Keefer et al.
0	1	WIPO/PCT	WO 00/16425	23 Mar 2000	Keefer et al.
0/	7	WIPO/PCT	WO 00/16880	30 Mar 2000	Rehg et al.
NKI	7	VIPO/PCT	WO 00/76630	21 Dec 2000	Keefer et al.
W.T.	V	VIPO/PCT ·	WO 02/24309	28 Mar 2002	Keefer et al.
OF	V	VIPO/PCT	WO 02/35623	02 May 2002	Keefer et al.
OZ	V	/IPO/PCT		18 July 2002	Keefer et al.

	DATE CONSIDERED:	11/16/04
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# FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)		Number	Publication Date	Name of
all		WIPO/PCT	WO 02/47797	20 June 2002	Applicant or Patentee Babicki et al.
Examiner's Initials*	Cite No. (optional)		ОТН	ER DOCUMENTS	
DK.		Carvill et al., AlCh	E J. 42(10):2765, 19	96 OCTUBER	
SK		Ding et al., Chemic	cal Engineering Scie	nce 55:3461-3474, 2	000 MONTH D
6)C		Ding et al., Chemic	cal Engineering Scie	nce 55:3929-3940, 2	000 (MONTHAND) 000 (MATHANGONA)
EX-		Hufton et al., AlCh.	E J. 45(2):248, 1999	(FORRIARY)	1 Chall Manons
(1)X	_	Iyuke et al., Chemic	cal Engineering Scie	nce 55:4745-4755, 2	000 ( 771 )
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	1 4	<b>PUCIN</b>	

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
OK!		5,360,679	01 Nov 1994	Buswell et al.
OF		5,998,056	07 Dec 1999	Divisek et al.
SOK		6,090,312	18 July 2000	Ziaka et al.

## FOREIGN PATENT DOCUMENTS

SOF	Ja	pan (Abstract)	JP 05-166528		Annlicant or Dotomas
			01 03-100328	02 July 1993	Applicant or Patentee Mitsubishi Electric Corp.
	e No.		OTI	HER DOCUMENTS	

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